

DOE Industrial Technologies Program

E-Bulletin



A Monthly Update from the U.S. Department of Energy Industrial Technologies Program

May 2004

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Welcome to this edition of the *E-Bulletin*—your connection to news and resources from DOE's Industrial Technologies Program (ITP). Each monthly edition brings you the latest industrial news highlights, and announcements about new tools and resources, training, events, and project opportunities.

Read the *E-Bulletin* and tap into opportunities to improve industrial energy efficiency today...and tomorrow!

HEADLINES

ITP Forest Products Portfolio Peer Review

ITP's Industries of the Future (IOF) Portfolio Peer Reviews provide opportunities to highlight and evaluate current research projects, and bring together research and commercialization partners. Plan to attend the [Forest Products Peer Review](#) at the TAPPI 2004 Paper Summit on May 3-6, 2004 in Atlanta, GA.

Glass Furnace Modeling Tool Now Available

The [Glass Furnace Model](#), a state-of-the-art, PC-based simulation code is available for license through Argonne National Laboratory's [Online Software Shop](#). The model is a powerful, versatile, and user-friendly tool for analyzing glass furnace performance. It was developed with ITP sponsorship by Argonne, and an industrial consortium representing various parts of the glass industry.

ITP Plant-wide Assessments Identify Energy- and Cost-Saving Opportunities

A plant-wide assessment (PWA) is a valuable tool to help manufacturers identify energy- and cost-saving opportunities in industrial facilities. To date, 43 plants have been awarded cost-shared plant-wide assessments. Of the 31 assessments completed, a total annual savings opportunity of \$170 million has been identified, with electricity savings of 420,000 MWh/year and natural gas savings of 10 trillion Btu/year. Find out how [PWAs](#) can help your company save energy, learn about companies that have been awarded cost-shared funds, and read about the latest [solicitation](#).

New Jersey Industries of the Future (NJIOF) Workshop: May 4, 2004

Plan to attend the NJIOF Partnership's ["Energy and Pollution Solutions"](#), a workshop highlighting plant-wide assessment opportunities, on May 4, 2004 at Rutgers University. Learn about the New Jersey Program for Manufacturing Excellence's two plant assessment programs, DOE's [plant-wide assessment](#) program, and [Industrial Assessment Centers](#).

ITP Launches N_xEAT Tool to Help Industry Assess NO_x Emissions

ITP's suite of [software tools](#) now includes N_xEAT, which helps plants assess and analyze NO_x emissions and potential energy efficiency improvements. N_xEAT will be launched at the [Texas Commission on Environmental Quality \(TCEQ\) Environmental Trade Fair and Conference](#), to be held May 3-5, 2005 in Austin, Texas.

Arizona Industries of the Future (IOF) Kick-Off Conference: June 15-16, 2004

ITP and the Arizona Department of Commerce invite you to attend the [Arizona IOF Kick-Off Conference](#), June 15-16, 2004 in Phoenix, AZ. Topics include energy saving tools and successes in the agriculture, aluminum, forestry, and mining industries. The event features presentations from industry, university, and government representatives, and breakout sessions on improving industrial energy efficiency, and reducing costs and environmental impacts.



U.S. Department of Energy

Energy Efficiency and Renewable Energy

Bringing you a prosperous future where energy is clean, abundant, reliable, and affordable

NEW PRODUCTS AND RESOURCES FROM ITP

ITP offers technical publications, software tools, and other resources to help address your company's industrial energy needs. Here are the latest products from ITP:

Case Study

Techni-Cast: Foundry Saves Energy with Compressed Air System Retrofit in Southgate, CA. By improving the compressed air system, the project allowed the foundry to reduce its compressor capacity by 50%, thus saving annual energy of 242,000 kWh and costs of \$24,000. The project's cost was \$38,000, however, the plant received a \$10,000 incentive payment from the California Public Utilities Commission, reducing the total cost to \$28,000.

Evaluation of the Compressed Air Training Program

The Compressed Air Challenge® (CAC) training program provides plant personnel and compressed air system vendors with knowledge to improve energy efficiency and performance of compressed air systems. This evaluation of the training program is based on results obtained from interviews with 100 end-user personnel and compressed air system vendors and engineers, as well as analysis of the CAC registration database. [Read the in-depth report.](#)

Energy Matters and Energy Matters Extra Winter 2004 Issue

Review the latest issue of [Energy Matters](#), your resource for industry news, technical tips, and case studies. Read how the University of Miami's Industrial Assessment Center identified wasted power at a Florida manufacturing plant; learn about the value of a systems approach strategy to compressed air; and consider how training benefits your company. Also check out [Energy Matters Extra](#).

Visit the [ITP Web site](#) for more **BestPractices technical publications, software tools, and case studies to help you improve efficiency, productivity, and the bottom line.**

TRAINING

Boost your knowledge about managing industrial energy systems. ITP offers technical training in industrial energy systems, which is offered throughout the year and around the country. Here are upcoming training events for May 2004:

May 13, 2004	Fundamentals of Compressed Air Systems	Westwood, MA
May 18, 2004	Process Heating Awareness Presentation	Pittsburgh, PA
May 18, 2004	Compressed Air Awareness Presentation	Pittsburgh, PA
May 18, 2004	Fundamentals of Compressed Air Systems	Reno, NV

[More May trainings](#)

View the [ITP calendar](#) for upcoming workshops in your area. Learn more about [BestPractices training sessions](#) and system [software tools](#).

PROJECT OPPORTUNITIES

ITP awards cost-shared funding for R&D and plant assessment projects through a competitive merit review process. Open solicitations are:

Innovative Energy Systems Challenge Solicitation

DOE, EERE and [Chemical Vision2020](#) are sponsoring an R & D competition to foster and commercialize energy-efficient systems within the chemical industry. Innovations in these systems could increase productivity and energy efficiency, and reduce costs in chemical plants worldwide. Read more on the [solicitation](#) – the deadline to submit applications is May 17, 2004.

Mining Grand Challenge Technology Concepts Solicitation

ITP Mining IOF recently issued a Grand Challenge solicitation that seeks applications for cost-shared R&D of technologies that will reduce energy and environmental impacts, and enhance economic competitiveness of the domestic mining industry. The key industry-identified research priorities are energy efficient alternatives to current technologies in the areas of extraction, materials handling, beneficiation, and processing. Find out more about the [solicitation](#).

Apply Now for Plant-Wide Assessment Financial Opportunity

ITP has announced a solicitation that seeks public-private partnerships to conduct plant-wide assessments in U.S. energy-intensive industrial plants. The objective is to develop a portfolio of assessment techniques that can be used by industries to identify and implement energy efficient opportunities in plants. Priority will be given to sites in the following industries: aluminum, cement, chemicals, food processing, forest products, glass, metal casting, mining, petroleum, and steel. Read the [solicitation](#).

To learn more about project opportunities visit [ITP's solicitation page](#).

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